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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/740,913	12/20/2000	Masaya Wajima	36856.390	5944
75	590 09/18/2002			
Keating & Be			EXAMINER	
	20 Eaton Place, Suite 312 fax, VA 22030  BUDD, MARK OS		OSBORNE	
			ART UNIT	PAPER NUMBER
			2834	W/
			DATE MAILED: 09/18/2002	(2)

Please find below and/or attached an Office communication concerning this application or proceeding.

<del>-</del>	
· Office Action Summary	Application No.  740913  Applicant(s)  Wajima et al
- Onice Action Summary	Examiner Group Art Unit 3834
-The MAILING DATE of this communication app	pears on the cover sheet beneath the correspondence address—
Period for Reply	2
A SHORTENED STATUTORY PERIOD FOR REPLY IS SE OF THIS COMMUNICATION.	T TO EXPIREMONTH(S) FROM THE MAILING DATE
from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days,  - If NO period for reply is specified above, such period shall, by def	FR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS, a reply within the statutory minimum of thirty (30) days will be considered timely. fault, expire SIX (6) MONTHS from the mailing date of this communication. statute, cause the application to become ABANDONED (35 U.S.C. § 133).
Status	
Responsive to communication(s) filed on $8-19$	1-02
☐ This action is <b>FINAL</b> .	
<ul> <li>Since this application is in condition for allowance exc accordance with the practice under Ex parte Quayle,</li> </ul>	cept for formal matters, <b>prosecution as to the merits is closed</b> in 1935 C.D. 1 1; 453 O.G. 213.
Disposition of Claims	
Claim(s) 1-4, 7, 9, 11-15	is/are pending in the application.
Of the above claim(s)	is/are withdrawn from consideration.
□ Claim(s)	is/are allowed.
V 1-4 D a 11-15 /8	20 L
$\lambda$ Claim(s) $\lambda$	is/are rejected.
Claim(s) 1-4, 7, 9, 11-15, 18  Claim(s) Claim(s)	is/are rejected.  is/are objected to.
, -	is/are objected to. are subject to restriction or election
☐ Claim(s)—————	is/are objected to.
☐ Claim(s)————————————————————————————————————	is/are objected to.  are subject to restriction or election requirement.
☐ Claim(s)————————————————————————————————————	is/are objected to.  are subject to restriction or election requirement.  awing Review, PTO-948.
☐ Claim(s) ☐ Claim(s) ☐ Application Papers ☐ See the attached Notice of Draftsperson's Patent Dra	is/are objected to.  are subject to restriction or election requirement.  awing Review, PTO-948.  is □ approved □ disapproved.
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U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

Part of Paper No. 12

Application/Control Number: 09/740,913

Art Unit: 2834

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 7, 9, 11-15, 18 and 20 rejected under 35 U.S.C. 103(a) as being unpatentable over Kuroda, Wajima or Sugiyama in view of Tsuji or Onishi.

Kuroda, Wajima and Sugiyama teach the piezo-electric resonator except they do not use laminated substrates with integral capacitors. However, Tsuji and Onishi teach mounting piezo-electric resonators on substrates provided as laminated layers incorporating circuit elements in an integral construction. Thus, to provide an very compact self contained piezo resonator as shown by Tsuji or Onishi it would have been obvious to one of ordinary skill in the art to use laminated substrates with Kuroda, Wajima or Sugiyama. Note that once the electric circuit is designed. The physical arachatecture of the ceramic piezo elements and capacitor electrodes is dictated and thus providing that structure would have been obvious to one of ordinary skill in the art. The newly added method recitations "liquid-sintered" and "sintered at the same temperature" are not limiting in the article claimed. An article of manufacture must stand or fall on its own merits as it is blind as to how it was produced. The first and second substrates cannot 'know' whether they were sintered at different temperatures or liquid-sintered.

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09/17/02

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